

# REDUNDANCY CONTROLLER

RMC-RRS011-HE01



## FIELD-PROVEN PERFORMANCE

Wavestream's Redundancy Controller provides intelligent control of Wavestream amplifiers in a 1:1 configuration along with corresponding receive path. The compact (1U) rack-mount chassis has a 4-line, backlit LCD display and key status LEDs.

## FEATURES

- 1U Rack-mount Chassis
- 1:1 String Switching or Independent TX and RX Switching
- Integrated Baseball Switch Control
- Ethernet Interface for NMS Integration
- Alarm Interface with Flexible Input and Output Alarm Processing
- Graphical, Back-lit LCD Display and Status LED's

## BENEFITS

- **Allows automatic control of switching to the redundant Amplifier to minimize system downtime**
- **Solid State technology allows for "Instant-On" redundant Amplifier with no warmup time**
- **Piece of mind in knowing that a redundant Amplifier is available in the event of a hardware issue**



## TECHNICAL SPECIFICATIONS

### RF SPECIFICATIONS

#### Transmit:

- Control of Wavestream amplifiers in a 1:1 configuration
- Automatic switchover on amplifier failure with support or manual override

#### Receive:

- User selectable switching mode
- Receive waveguide switch can follow transmit on failure or switch independently

#### Switch:

Contact Wavestream for supported waveguide switches

#### Control:

All features can be configured via the front panel or remotely via Ethernet console port

#### Lamp Test:

Tests display and LED

### STATUS LEDS

#### SSPA A/B:

Blue LED indicating active amplifier

#### TX Active:

Green LED indicating amplifier is enabled

#### Summary Fault:

Red LED indicating fault with the amplifier

#### Serial Link:

Green/Red LED indicating Real-time status of the amplifier

#### 10 MHz Lock:

Green/Red LED indicating Lock status of the amplifier

#### LNB A/B:

Blue LED indicating active receive path

### INTERFACES

#### SSPA A:

DB-9 Female, RS-485 connection to Amplifier A

#### SSPA B:

DB-9 Female, RS-485 connection to Amplifier B

#### TX:

10-pin Military Circular Connection to Transmit waveguide switch

#### RX:

10-pin Military Circular Connection to Receive waveguide switch

#### Alarms:

DB-15 Female, Input and Output discrete alarm signals

#### Console A:

Ethernet, RJ-45; Remote Monitor and Control interface for NMS integration

#### Console B:

USB, Firmware upgrade port

### POWER

#### AC Power:

90-264 VAC, 50-60 Hz

### PHYSICAL

#### Size:

19"L x 9.6"W x 1.75" (1U) H

**Weight:** 5 lbs

#### Operating Temperature:

0° C to +50° C

#### Relative Humidity:

95% Condensing

#### Shock & Vibration:

MIL-STD-810E, method 514-4

#### Altitude:

10,000 ft above sea level (operating)

### BASE MODEL

RMC-RRS011-HE01

## ABOUT WAVESTREAM

Wavestream sets the standard in the design and manufacture of next generation high power solid state amplifiers. Wavestream's Family of Ka, Ku and X-band Solid State Power Amplifiers (SSPAs), Block Upconverters (BUCs) and transceivers provide systems integrators with field-proven, high performance solutions designed for ground mobile and fixed, gateway and airborne satellite communication systems worldwide.

These items are subject to the Export Administration Regulations (EAR), 15 C.F.R. Parts 730-774, and may not be exported or transferred to any non-U.S. person, except as authorized by the U. S. Department of Commerce.

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